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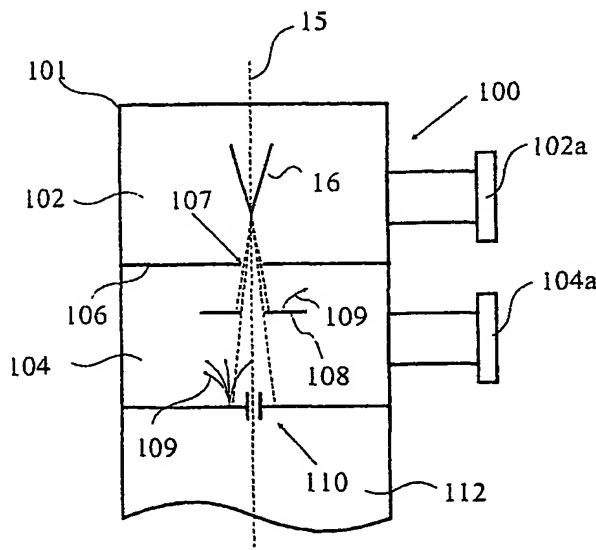
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(54) Title: CHAMBER WITH LOW ELECTRON STIMULATED DESORPTION



(57) Abstract: The present invention provides a charged parti-
cle emission component (100) for providing a charged particle
beam (17) to a chamber of a charged particle beam column. The
device comprises a gun chamber for housing the charged parti-
cle emission component; an emitter (16) for emitting a beam
of charged particles; at least one beam shaping element (109; 18;
108; 402); and a residual gas diffusion barrier (106; 206) directly
subsequent the emitter.

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